



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950  
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

August 19, 2014

14-NWP-176

Mr. Rudy Guercia  
U.S. Department of Energy  
825 Jadwin Avenue, MSIN: A3-04  
Richland, Washington 99352

Re: Transmittal of Signed Facility Status Change Form for 100-N Ancillary Facilities

Dear Mr. Guercia:

Enclosed is the originally signed Facility Status Change Form for Facility ID: 100-N AOC Area 8, Control # D4-100N-0065.

If you have any questions, please contact me at [kim.welsch@ecy.wa.gov](mailto:kim.welsch@ecy.wa.gov) or (509) 372-7882.

Sincerely,

Kim Welsch, Acting Project Manger  
Environmental Restoration  
Nuclear Waste Program

tkb  
Enclosure

cc w/enc:  
NWP Central File

cc w/o enc:  
NWP Reader File

RECEIVED  
AUG 20 2014  
DOE-RLCC



**FACILITY STATUS CHANGE FORM**

<b>Date Submitted:</b> 8-6-2014 <b>Originator:</b> Dan Saueressig <b>Phone:</b> 509-521-5326	<b>Area:</b> 100-N <b>Facility ID:</b> 100-N AOC Area 8 <b>Action Memorandum:</b> 100-N Ancillary Facilities	<b>Control #:</b> D4-100N-0065
---	---	-----------------------------------

**This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.**

**Section 1: Facility Status**

☒ All D4 operations required by action memo complete.

☐ D4 operations required by action memo partially complete, remaining operations deferred.

**Description of Completed Activities and Current Conditions:**  
The 100-N Area of Contamination (AOC) Area 8 consists of a large area south and east of the 109-N Heat Exchanger Building and provided access/entry to the facilities in the vicinity (105-ND Remote Air Intake, 108-N Chemical Unloading Facility, 151-N Electrical Substation, 153-N Electrical Switchgear Building, 182-N High Lift Pumphouse, 184-N Power House, 163-N Demineralized Water Plant, 183-N Water Treatment Plant and the 185-N HGP Turbine Generator Plant). The area has been backfilled to existing grade.

**Description of Deferral (as applicable):**  
N/A

**Section 2: Underlying Soil Status**

☐ No waste site(s) present. No additional actions anticipated.

☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.

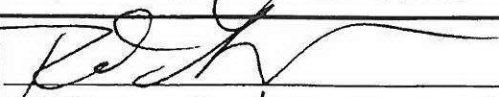
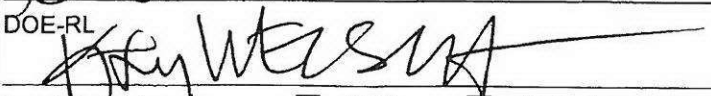
☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.

Cleanup and closeout to be addressed under Record of Decision.

**Description of Current/As-Left Conditions:**  
The 100-N AOC Area 8 consists of a large area south and east of the 109-N Heat Exchanger Building and provided access/entry to the facilities in the vicinity (105-ND Remote Air Intake, 108-N Chemical Unloading Facility, 151-N Electrical Substation, 153-N Electrical Switchgear Building, 182-N High Lift Pumphouse, 184-N Power House, 163-N Demineralized Water Plant, 183-N Water Treatment Plant and the 185-N HGP Turbine Generator Plant). The area has been backfilled to existing grade.

**Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):**  
N/A. Sampling Determination Form provides a listing and description of adjacent waste sites.

**Section 3: List of Attachments**  
Sample Determination Form SDF-100N-039

 DOE-RL		8/7/14 Date
Lead Regulator	<input type="checkbox"/> EPA <input checked="" type="checkbox"/> Ecology	8/10/14 Date

## FACILITY STATUS CHANGE FORM

**DISTRIBUTION:**

EPA: Dennis Faulk, B1-46

Ecology: Wanda Elliott, H0-57

DOE: Rudy Guercia, A3-04

Document Control, H4-11 H0-30

Administrative Record, H6-08 100-NR-1 OU

SIS Coordinator: Benjamin Cowen, H4-22

D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-23

FR Engineering: Rich Carlson, H4-22

FR EPL: Dan Saueressig, X8-02

# 100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number  
SDF-100N-039

## A. INSTRUCTIONS

*This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.*

## B. GENERAL INFORMATION

Building Name: 100-N AOC Area 8

Building Number: N/A

### WIDS Sites Associated or Adjacent:

Historical information reviewed indicates AOC Area 8 functioned primarily as a roadway and asphalted access area to various support buildings south of the 109-N Heat Exchanger. The building footprints and waste sites within AOC Area 8 have their own closure documents [Facility Status Change Forms for ancillary facilities and Remaining Sites Verification Packages (RSVPs) for waste sites]. Some waste sites do not have approved RSVPs in place, however backfill concurrence forms have been approved allowing backfill of the sites while the RSVPs are finalized.

100-N-8, 108-N Facility, 108-N CUF, Rejected, WSRF No. 2000-050.

100-N-10, 120-N-5 Facility Liquid Unplanned Release 2 (09/02/87), Rejected, WSRF No. 2000-052.

100-N-11, 120-N-5 Transfer Trench Liquid Unplanned Release 3, Rejected, WSRF No. 2000-053.

100-N-23, Resin Disposal Pit Liquid Waste Site 1, Interim Closed Out, RSVP-2013-009, WSRF No. 2013-009, Transmittal Letter dated August 6, 2013 (CCN 172204).

100-N-27, 108-N Sump, 108-N Neutralization Pit, Rejected, WSRF No. 2000-054.

100-N-58, South Pond, 120-N South Settling Pond, 1324-N South Settling Pond, Accepted, Closed Out, CVP-2001-00021, WSRF No. 2001-093.

100-N-84:1, 100-N Area Raw Water Pipelines, No Action, RSVP-2010-019, WSRF No. 2010-019, Transmittal Letter dated December 12, 2012 (CCN 169002).

100-N-84:3, 100-N Area Filtered and Potable Water Pipelines, No Action, RSVP-2010-020, WSRF No. 2010-020, Transmittal Letter dated November 14, 2012 (CCN 168594).

100-N-84:4, 100-N Area Steam and Condensate Pipelines, Accepted.

100-N-84:5, 100-N Area Sanitary Pipelines, Accepted.

100-N-84:6, 100-N Area Chemical and Process Sewer Pipelines, Accepted.

100-N-84:7, 100-N Area Unidentified and Other Miscellaneous Pipelines, No Action, RSVP-2011-092, WSRF No. 2011-092, Transmittal Letter dated May 30, 2012 (CCN 165808).

100-N-84:9, 100-N Area Active Raw Water Pipelines, No Action, RSVP-2010-019, WSRF No. 2012-012, Transmittal Letter dated December 12, 2012 (CCN 169002).

100-N-103:1, 100-N Steam Condensate French Drains (inactive), Accepted, No Action, RSVP-2011-114, WSRF No. 2011-114, Transmittal Letter dated 7/30/2012 (CCN 166823).

116-N-8, 163-N Mixed Waste and Hazardous Waste Container Storage Pad, 1330-N, 116-N-8 Storage Pad, Rejected, WSRF No. 2000-035.

120-N-2, 1324-N Surface Impoundment, Accepted.

120-N-5, 108-N/163-N Transfer Line and Neutralization Pit, Rejected, WSRF No. 2000-096.



# 100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number  
SDF-100N-039

Other:

Buildings within or near AOC Area 8 include the 105-ND Remote Air Intake, 108-N Chemical Unloading Facility, 151-N Electrical Substation, 153-N Electrical Switchgear Building, 163-N Demineralized Water Plant, 183-N/NA/NB/NC/ND/NE/NF Water Treatment Plant and support buildings, the 1330-N Waste Storage Facility, 1802-N Pipe Trestle, the 1900-N Water Supply Tanks and the 182-N High Lift Pumphouse. All wells within 10 feet from AOC Area 8 have been decommissioned.

## C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: N/A

Site Walkdown: See Attachment 3

IH Characterization Report: N/A

Radiological Survey: See Attachment 4

IHC/FHC Document: N/A

WIDS/SIS: See Section B above.

PDSR: N/A

Facility Inspection: Visual Inspection (Attachment 3)

Waste Characterization Checklist: N/A

Summary Report: N/A

Other:

## D. HAZARDOUS SUBSTANCES

Check all that apply:

☒ None ☐ Asbestos containing material ☐ Lead ☐ PCBs/PCB Articles ☐ Oils/Greases

☐ Chemicals List: \_\_\_\_\_

☐ Radiological Contamination ☐ Mercury/Mercury Devices

☐ Other: \_\_\_\_\_

References/Comments:

Liquids: ☐ Yes ☒ No

If yes, describe source and nature of liquids:

Were the hazardous substances removed from the facility prior to demolition? ☐ Yes ☒ No

As verified by what documentation:

The AOC is not a facility. Surrounding facilities have their own FSCFs.

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? ☐ Yes ☒ No ☐ N/A

References/Comments:

Visual inspection performed (Attachment 3) confirming no staining or other anomalous conditions observed.

List any hazardous materials left in the building for demolition:

N/A

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

No

Comments:

## E. FIELD OBSERVATIONS

### Visual Inspection

## 100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number  
SDF-100N-039

Were any stained soils/anomalies discovered during or after demolition of the facility? ☐ Yes ☒ No

References/Comments:

Were samples taken of the stained soils/anomalies? ☐ Yes ☐ No ☒ N/A

References/Comments:

Do results of the samples indicate that chemical contamination exists? ☐ Yes ☐ No ☒ N/A

References/Comments:

Is the area potentially a discovery site? ☐ Yes ☒ No

References/Comments:

### Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination? ☐ Yes ☒ No

References/Comments:

Radiological surveys of AOC Area 8 for gamma contamination using GPERS identified no contamination greater than 1.5 x background. A composite diagram of the survey is presented in Attachment 4. In addition, numerous in-process hand held surveys never indicated that radiological contamination was discovered south of the reactor or within the Field Remediation waste sites in AOC Area 8.

Were samples taken of the radiologically contaminated soils? ☐ Yes ☐ No ☒ N/A

References/Comments:

Is the area potentially a discovery site? ☐ Yes ☒ No

References/Comments:

Were the contaminated materials removed? ☐ Yes ☐ No ☒ N/A

References/Comments:

### F. WIDS SITES

Were there any WIDS sites affected by D4 activities? ☐ Yes ☒ No

If yes, list the WIDS sites:

Were the WIDS site(s) completely removed? ☒ Yes ☐ No

References/Comments:

See waste site data in Section B of this Sampling Determination Form.

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? ☐ Yes ☒ No

References/Comments:

### G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

☒ None ☐ SVOC ☐ VOC ☐ Metals ☐ TPH ☐ Rad ☐ PCBs

☐ Other (Specify): \_\_\_\_\_



# 100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number  
SDF-100N-039

Comments:

Summary of in-process soil sampling requirements:  
N/A

Constituents detected / concentrations / rationale  
N/A

Sample Collection Summary  
N/A

## H. NOTES / ADDITIONAL INFORMATION

☒ Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

Attachment 1. Photographs or AOC Area 8

Attachment 2. WIDS sites and wells around AOC Area 8

Attachment 3. Visual Inspection of 100-N AOC Area 8

Attachment 4. Global Positioning Environmental Radiological Surveyor (GPERS) survey of AOC Area 8

## I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards?

☐ Yes ☒ No

Based on the above information it was determined that sampling: ☐ will ☒ will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature

Printed Name

Date

Dan Saueressig

8/6/14

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

DOE Signature

Printed Name

Date

Rudy Guercia

8/7/14

Ecology Signature

Printed Name

Date

KIM WELSCH

8/18/14